

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2017 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee			Left	21.68
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/13/2017 - 4/13/2017			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_ST0002_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_ST0002_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_ST0002_01_s_2013_6				
Comment Code					
Inspector Comment					
The LMA has completed flood flight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	0.01	Rating **	M	Issue No.	27
LM End	0.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.151117 °	39.147405 °
				-121.831953 °	-121.828543 °
DWR ID	DWR_ST0002_01_f_2016_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_27_20170315_00006.jpg



View of the annual grass blocking visibility.

LM Start	0.32	Rating **	M	Issue No.	57
LM End	0.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147463 °	39.147463 °
				-121.828716 °	-121.828716 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51556 DS_ID:16859 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/10/2016 Unable to locate.4/18/2016 Unable to locate.5/7/2015 Could not locate a marker for this crossing.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. Unable to locate.10/8/2012 Unable to locate any indicator of crossing. More research may be necessary. FIELD_STRUCT_DESC: 3-inch gas line along the landside (LS) toe. (Permit No. 4795, 1965 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/13/2017 12:41:48 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	0.36	Rating **	M	Issue No.	42
LM End	0.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.147183 °	39.147183 °
				-121.828142 °	-121.828142 °
DWR ID	DWR_ST0002_01_s_2017_42				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Repair the erosion along the water side toe.					

Photo 1 of 1 : SP_2017_ST0002_450_42_20170413_00069.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	1.12	Rating **	M	Issue No.	58
LM End	1.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51560
 DS_ID:16862
 EP_NO: 10932
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- A Freitag) 10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried. (DWR Sutter Yard - a Freitag) 4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found. 5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder. 11/12/2014 Same as last inspection. 5/13/2014 Same as last inspection. 10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder. 5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker. 10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue.
 FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. Replaced under (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)].
 FS Date: 4/13/2017 12:49:52 PM

Photo 1 of 3 : UCIP_SP_2017_51560_64805.jpg



Pump on metal pier on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	1.12	Rating **	M	Issue No.	58 (cont)
LM End	1.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51560 DS_ID:16862 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- A Freitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - a Freitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. Replaced under (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 4/13/2017 12:49:52 PM					

Photo 2 of 3 : UCIP_SP_2017_51560_64804.jpg



24-inch CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	1.12	Rating **	M	Issue No.	58 (cont)
LM End	1.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51560
DS_ID:16862
EP_NO: 10932
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- A Freitag) 10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried. (DWR Sutter Yard - a Freitag) 4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found. 5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder. 11/12/2014 Same as last inspection. 5/13/2014 Same as last inspection. 10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder. 5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker. 10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. Replaced under (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)].
FS Date: 4/13/2017 12:49:52 PM

Photo 3 of 3 : UCIP_SP_2017_51560_64803.jpg



7'X7' concrete distribution box on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.54	Rating **	M	Issue No.	30
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.120417 °	39.120417 °
				-121.779863 °	-121.779863 °
DWR ID	DWR_ST0002_01_f_2015_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_30_20170315_00008.jpg



View of the rodent holes along the landside slope.

LM Start	3.55	Rating **	A/W	Issue No.	59	
LM End	3.55	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.120372 °		39.120372 °
				-121.779800 °		-121.779800 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51566 DS_ID:16880 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 1 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]. FS Date: 4/13/2017 1:10:49 PM						

Photo 1 of 3 : UCIP_SP_2017_51566_64815.jpg



Slide gates on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	59 (cont)
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120372 °	39.120372 °
				-121.779800 °	-121.779800 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51566
DS_ID:16880
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 1 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].
FS Date: 4/13/2017 1:10:49 PM

LM Start	3.55	Rating **	A/W	Issue No.	59 (cont)
LM End	3.55	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_51566_64814.jpg



Flap gates on WS toe.

Photo 3 of 3 : UCIP_SP_2017_51566_64813.jpg



Abandoned pumphouse and sump on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	60
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °
				-121.779775 °	-121.779775 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51567
DS_ID:16895
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 2 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]
FS Date: 4/13/2017 1:16:13 PM

LM Start	3.55	Rating **	A/W	Issue No.	60 (cont)
LM End	3.55	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51567_64819.jpg



Slide gate valves on LS shoulder.

Photo 2 of 3 : UCIP_SP_2017_51567_64818.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.	60 (cont)
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120358 °	39.120358 °
				-121.779775 °	-121.779775 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51567
DS_ID:16895
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 2 of 2. 4-foot by 6-foot concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)]
FS Date: 4/13/2017 1:16:13 PM

Photo 3 of 3 : UCIP_SP_2017_51567_64817.jpg



Abandoned pump house and sump on LS toe.

LM Start	4.81	Rating **	M	Issue No.	26
LM End	4.81	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.108110 °	39.108110 °
				-121.762623 °	-121.762623 °

Comment Code

CR1 : Monitor and have inspected by geotechnical engineer.

Inspector Comment

Longitudinal cracks caused by fat clay.

Photo 1 of 1 : SP_2017_ST0002_450_26_20170315_00005.jpg



View of the longitudinal cracks.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	7.47	Rating **	M	Issue No.	61
LM End	7.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.072292 °	39.072292 °
				-121.744907 °	-121.744907 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51582
DS_ID:19985
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Crossing appears to be in good condition.
(DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.
(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.
5/7/2015 Crossing is in good condition. No noticeable issues to report.
11/12/2014 Same as last inspection.
5/13/2014 Same as last inspection.
10/30/2013 Same as last inspection.
5/22/2013 Same as last inspection.
10/8/2012 No Permit identified for crossing.
FIELD_STRUCT_DESC: Gas-line crosses levee at an unknown depth below the crown. Carsonite sign located on the waterside (WS) shoulder and at landside (LS) toe across toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012.
FS Date: 4/13/2017 1:56:50 PM

LM Start	7.47	Rating **	M	Issue No.	61 (cont)
LM End	7.47	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51582_65213.jpg



Gasline marker on WS shoulder.

Photo 2 of 3 : UCIP_SP_2017_51582_65212.jpg



Gasline marker on LS toe east of ditch.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	7.47	Rating **	M	Issue No.	61 (cont)	
LM End	7.47	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.072292 °	39.072292 °	
				-121.744907 °	-121.744907 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51582 DS_ID:19985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Gas-line crosses levee at an unknown depth below the crown. Carsonite sign located on the waterside (WS) shoulder and at landside (LS) toe across toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/13/2017 1:56:50 PM						

Photo 3 of 3 : UCIP_SP_2017_51582_76970.jpg



Close up of marker

LM Start	7.83	Rating **	A/W	Issue No.	34
LM End	7.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.067299 °	39.067299 °
				-121.742851 °	-121.742851 °
DWR ID	DWR_ST0002_01_f_2016_34				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_34_20170315_00009.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	8.14	Rating **	M	Issue No.	62
LM End	8.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.062976 °	39.062976 °
				-121.741027 °	-121.741027 °

Comment Code

Inspector Comment

FS_ID:51583
DS_ID:19984
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Crossing appears to be in good condition.
(DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.
(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.
5/7/2015 Crossing is in good condition. No noticeable issues to report.
11/12/2014 Same as last inspection.
5/13/2014 Same as last inspection.
10/30/2013 Same as last inspection.
5/22/2013 Same as last inspection.
10/8/2012 No permit or purpose identified for this crossing.
FIELD_STRUCT_DESC: 2.5-inch steel pipe bored under the levee at an unknown depth below the crown. Pipe has locked cap on the landside (LS) toe. Steel I-beam stream crossing on the LS toe mark location of pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012.
FS Date: 4/13/2017 2:00:16 PM

LM Start	8.14	Rating **	M	Issue No.	62 (cont)
LM End	8.14	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_51583_65215.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

Photo 2 of 2 : UCIP_SP_2017_51583_65214.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	8.80	Rating **	A/W	Issue No.	35
LM End	8.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.053838 °	39.053838 °
				-121.737247 °	-121.737247 °
DWR ID	DWR_ST0002_01_f_2016_35				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_35_20170315_00010.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	63
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °

Comment Code

Inspector Comment

FS_ID:51620
DS_ID:16884
EP_NO: 14455
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoudler is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 1 of 3. 4.5-inch steel natural gas pipe lines through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. (Permit No. 14455, 1986 - Depco, Inc.)
FS Date: 4/17/2017 2:16:00 PM

Photo 1 of 3 : UCIP_SP_2017_51620_65217.jpg



Gasline markers on LS toe .

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	63 (cont)	
LM End	10.28	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.033522 °		39.033522 °
				-121.728927 °		-121.728927 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51620 DS_ID:16884 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoudler is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 1 of 3. 4.5-inch steel natural gas pipe lines through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 4/17/2017 2:16:00 PM						

Photo 2 of 3 : UCIP_SP_2017_51620_65216.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	63 (cont)
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51620
DS_ID:16884
EP_NO: 14455
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch)
10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shouddler is broken and should be replaced. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 1 of 3. 4.5-inch steel natural gas pipe lines through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. (Permit No. 14455, 1986 - Depco, Inc.)
FS Date: 4/17/2017 2:16:00 PM

Photo 3 of 3 : UCIP_SP_2017_51620_74958.jpg



Damaged gas lines at the WS berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	64
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51621 DS_ID:16899 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- A Freitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - a Freitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - a Freitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - a Freitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - a Freitag) FIELD_STRUCT_DESC: 2 of 3. 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 4/17/2017 2:17:33 PM					

Photo 1 of 3 : UCIP_SP_2017_51621_65219.jpg



Gasline markers on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	64 (cont)
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51621 DS_ID:16899 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3. 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 4/17/2017 2:17:33 PM					

Photo 2 of 3 : UCIP_SP_2017_51621_65218.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	64 (cont)	
LM End	10.28	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033519 °	39.033519 °	
				-121.728926 °	-121.728926 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51621 DS_ID:16899 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3. 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 4/17/2017 2:17:33 PM						

Photo 3 of 3 : UCIP_SP_2017_51621_74959.jpg



Damaged gas lines at the WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	65
LM End	10.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033517 °	39.033517 °
				-121.728925 °	-121.728925 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51622 DS_ID:16900 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 3 of 3. 4.5-inch steel natural gas pipelines through the levee , 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 4/17/2017 2:24:51 PM					

Photo 1 of 3 : UCIP_SP_2017_51622_65224.jpg



Gasline markers on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	65 (cont)	
LM End	10.28	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033517 °	39.033517 °	
				-121.728925 °	-121.728925 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51622 DS_ID:16900 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 3 of 3. 4.5-inch steel natural gas pipelines through the levee , 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 4/17/2017 2:24:51 PM						

Photo 2 of 3 : UCIP_SP_2017_51622_65223.jpg



Gasline markers on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.28	Rating **	U	Issue No.	65 (cont)	
LM End	10.28	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033517 °	39.033517 °	
				-121.728925 °	-121.728925 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51622 DS_ID:16900 EP_NO: 14455 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 3 of 3. 4.5-inch steel natural gas pipelines through the levee , 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers located on the landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986 - Depco, Inc.) FS Date: 4/17/2017 2:24:51 PM						

Photo 3 of 3 : UCIP_SP_2017_51622_74960.jpg



Damaged gas lines at WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	66
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025693 °	39.025693 °
				-121.726895 °	-121.726895 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51595
DS_ID:16871
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Aabandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]
FS Date: 4/13/2017 2:16:54 PM

LM Start	10.83	Rating **	M	Issue No.	66 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51595_65251.jpg



Slide gates on WS shoulder

Photo 2 of 3 : UCIP_SP_2017_51595_65250.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	66 (cont)	
LM End	10.83	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.025693 °	39.025693 °	
				-121.726895 °	-121.726895 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51595 DS_ID:16871 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Aabandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticebale issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)] FS Date: 4/13/2017 2:16:54 PM						

Photo 3 of 3 : UCIP_SP_2017_51595_65249.jpg



Pumphouse/intake structure on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	M	Issue No.	67 (cont)	
LM End	10.83	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.025683 °		39.025683 °
				-121.726886 °		-121.726886 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51596 DS_ID:16906 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 2 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)] FS Date: 4/13/2017 2:17:39 PM						

Photo 3 of 3 : UCIP_SP_2017_51596_65252.jpg



Pumping plant on LS toe.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	68
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025673 °	39.025673 °
				-121.726873 °	-121.726873 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51597
DS_ID:16907
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 3 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]
FS Date: 4/13/2017 2:18:31 PM

LM Start	10.83	Rating **	A/W	Issue No.	68 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51597_65257.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2017_51597_65256.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	68 (cont)	
LM End	10.83	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.025673 °		39.025673 °
				-121.726873 °		-121.726873 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51597 DS_ID:16907 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 3 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)] FS Date: 4/13/2017 2:18:31 PM						

Photo 3 of 3 : UCIP_SP_2017_51597_65255.jpg



Pumphouse and intake on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	69
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025656 °	39.025656 °
				-121.726878 °	-121.726878 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51598
DS_ID:16908
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 4 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]
FS Date: 4/13/2017 2:19:46 PM

LM Start	10.83	Rating **	A/W	Issue No.	69 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51598_65260.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2017_51598_65259.jpg



Flap gates on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	70
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °
				-121.726874 °	-121.726874 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51599
DS_ID:16909
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment for pipe.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 5 of 5. 4-foot by 6-foot reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]
FS Date: 4/13/2017 2:20:32 PM

LM Start	10.83	Rating **	A/W	Issue No.	70 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51599_65263.jpg



Slide gates on WS shoulder.

Photo 2 of 3 : UCIP_SP_2017_51599_65262.jpg



Flap gates on WS Toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.	70 (cont)
LM End	10.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.025639 °	39.025639 °
				-121.726874 °	-121.726874 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51599
DS_ID:16909
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment for pipe.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 5 of 5. 4-foot by 6-foot reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]
FS Date: 4/13/2017 2:20:32 PM

Photo 3 of 3 : UCIP_SP_2017_51599_65261.jpg



Pumphouse/intake on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.84	Rating **	M	Issue No.	71
LM End	10.84	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025560 °	39.025560 °
				-121.726846 °	-121.726846 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51600 DS_ID:16872 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned. 10/10/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticebale issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch drainage pipe through the levee, 2 feet below the crown. Siphon breaker in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. Minimalistic design drawings available. (Permit No. 3165, 1959 - State of California Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/13/2017 2:21:21 PM					

Photo 1 of 1 : UCIP_SP_2017_51600_65264.jpg



Siphon breaker in 36-inch CMP riser on WS shoulder. Pipe visible at siphon breaker.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.85	Rating **	M	Issue No.	72
LM End	10.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025310 °	39.025310 °
				-121.726770 °	-121.726770 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51601
DS_ID:19986
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - A Freitag) 10/10/2016 Crossing appears to be in good condition but there is no permit on file. (DWR Sutter Yard - a Freitag) 4/18/2016 Crossing appears in good condition. No noticeable issues to report. 5/7/2015 Crossing is in good condition. No noticeable issues to report. 11/12/2014 Same as last inspection. 5/13/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/22/2013 Same as last inspection. 10/9/2012 No permit identified for crossing.
FIELD_STRUCT_DESC: Gas-line crosses levee at an unknown depth below the crown. Carsonite sign on both landside (LS) and waterside (WS) shoulder. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012.
FS Date: 4/13/2017 2:21:49 PM

LM Start	10.85	Rating **	M	Issue No.	72 (cont)
LM End	10.85	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51601_65266.jpg



Gasline marker on LS shoulder.

Photo 2 of 3 : UCIP_SP_2017_51601_65265.jpg



Gasline marker on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	10.85	Rating **	M	Issue No.	72 (cont)	
LM End	10.85	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.025310 °	39.025310 °	
				-121.726770 °	-121.726770 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51601 DS_ID:19986 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - A Freitag)10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/9/2012 No permit identified for crossing. FIELD_STRUCT_DESC: Gas-line crosses levee at an unknown depth below the crown. Carsonite sign on both landside (LS) and waterside (WS) shoulder. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/13/2017 2:21:49 PM						

Photo 3 of 3 : UCIP_SP_2017_51601_76971.jpg



Close up of marker

LM Start	10.88	Rating **	M	Issue No.	1
LM End	10.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID	DWR_ST0002_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Small section of the mid levee slope has eroded from wind wave.					
2015: Site is part of the extended inventory, last inspected 2011. [2015					
Site ID: SBP_11-1_L]					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	12.94	Rating **	M	Issue No.	73
LM End	12.94	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.996304 °	38.996304 °
				-121.716290 °	-121.716290 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51602 DS_ID:16883 EP_NO: 15571 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/11/2017 Unable to locate. (DWR Sutter Yard - A Freitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)4/18/2016 Unable to locate.5/7/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection. Unable to locate.10/9/2012 Need to determine status of pipeline. Unable to locate any markers in field. FIELD_STRUCT_DESC: 10.75-inch steel gas line through the levee, 2 feet below the levee crown. Line was installed within the flowage area and both levees of the Sutter Bypass. Design drawings are available. (Permit No. 15571, 1990 - Hood Corporation) FS Date: 4/13/2017 2:26:11 PM					

No Photos

LM Start	13.34	Rating **	A/W	Issue No.	23
LM End	13.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991857 °	38.991857 °
				-121.711555 °	-121.711555 °
DWR ID	DWR_ST0002_01_s_2015_23				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the waterside slope.					

Photo 1 of 1 : SP_2017_ST0002_450_23_20170315_00004.jpg



View of the vehicle erosion along the slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	13.98	Rating **	A	Issue No.	43
LM End	13.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.985980 °	38.985980 °
				-121.702438 °	-121.702438 °
DWR ID	DWR_ST0002_01_s_2017_43				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
There are native grasses on both slopes.					

Photo 1 of 1 : SP_2017_ST0002_450_43_20170413_00070.jpg



View of native grasses on both slopes.

LM Start	14.69	Rating **	M	Issue No.	44
LM End	14.69	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.979540 °	38.979540 °
				-121.692150 °	-121.692150 °
DWR ID	DWR_ST0002_01_s_2017_44				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP_2017_ST0002_450_44_20170413_00071.jpg



View of debris at waterside toe.

LM Start	14.71	Rating **	M	Issue No.	37
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_37				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 1 : SP_2017_ST0002_450_37_20170315_00011.jpg



View of the erosion caused by vehicle traffic.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	14.71	Rating **	M	Issue No.	38
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.979389 °	38.979389 °
				-121.691923 °	-121.691923 °
DWR ID	DWR_ST0002_01_f_2016_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_38_20170315_00012.jpg



View of the rodent holes along the landside slope.

LM Start	14.71	Rating **	M	Issue No.	74
LM End	14.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.979377 °	38.979377 °
				-121.691929 °	-121.691929 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51605 DS_ID:16875 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both waterside (WS) and landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 4/13/2017 2:34:10 PM					

Photo 1 of 3 : UCIP_SP_2017_51605_65314.jpg



Pipe on WS slope exposed and crushed below 30-inch steel riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	14.71	Rating **	M	Issue No.	74 (cont)
LM End	14.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.979377 °	38.979377 °
				-121.691929 °	-121.691929 °

Comment Code

Inspector Comment

FS_ID:51605
DS_ID:16875
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both waterside (WS) and landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)].
FS Date: 4/13/2017 2:34:10 PM

LM Start	14.71	Rating **	M	Issue No.	74 (cont)
LM End	14.71	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_51605_65313.jpg



Steel riser on LS shoulder.

Photo 3 of 3 : UCIP_SP_2017_51605_65312.jpg



Crushed pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	15.24	Rating **	M	Issue No.	46
LM End	15.24	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974510 °	38.974510 °
				-121.684290 °	-121.684290 °
DWR ID	DWR_ST0002_01_s_2017_46				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the waterside toe.					

Photo 1 of 1 : SP_2017_ST0002_450_46_20170413_00073.jpg



View of the tree at the waterside toe.

LM Start	15.24	Rating **	M	Issue No.	45
LM End	15.24	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974450 °	38.974450 °
				-121.684168 °	-121.684168 °
DWR ID	DWR_ST0002_01_s_2017_45				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP_2017_ST0002_450_45_20170413_00072.jpg



View of the debris at the waterside toe.

LM Start	16.04	Rating **	M	Issue No.	47
LM End	16.04	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.966992 °	38.966992 °
				-121.672923 °	-121.672923 °
DWR ID	DWR_ST0002_01_s_2017_47				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the waterside toe.					

Photo 1 of 1 : SP_2017_ST0002_450_47_20170413_00074.jpg



View of the tree at the waterside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	16.44	Rating **	M	Issue No.	48
LM End	16.44	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.962923 °	38.962923 °
				-121.667787 °	-121.667787 °
DWR ID	DWR_ST0002_01_s_2017_48				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP_2017_ST0002_450_48_20170413_00075.jpg



View of the debris at the waterside toe.

LM Start	16.59	Rating **	M	Issue No.	49
LM End	16.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.961228 °	38.961228 °
				-121.666013 °	-121.666013 °
DWR ID	DWR_ST0002_01_s_2017_49				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	16.66	Rating **	M	Issue No.	50
LM End	16.66	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.960428 °	38.960428 °
				-121.665208 °	-121.665208 °
DWR ID	DWR_ST0002_01_s_2017_50				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	16.75	Rating **	M	Issue No.	51
LM End	16.75	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.959502 °	38.959502 °	
			-121.664087 °	-121.664087 °	
DWR ID	DWR_ST0002_01_s _ 2017_51				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	16.96	Rating **	M	Issue No.	52
LM End	16.96	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.957080 °	38.957080 °	
			-121.661527 °	-121.661527 °	
DWR ID	DWR_ST0002_01_s _ 2017_52				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	17.12	Rating **	M	Issue No.	53
LM End	17.12	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.955352 °	38.955352 °	
			-121.659657 °	-121.659657 °	
DWR ID	DWR_ST0002_01_s _ 2017_53				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP_2017_ST0002_450_53_20170413_00079.jpg



View of the debris along the waterside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	17.12	Rating **	M	Issue No.	54
LM End	17.12	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.955352 °	38.955352 °
				-121.659657 °	-121.659657 °
DWR ID	DWR_ST0002_01_s_2017_54				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the waterside toe.					

Photo 1 of 1 : SP_2017_ST0002_450_54_20170413_00078.jpg



View of the tree along the waterside toe.

LM Start	17.60	Rating **	M	Issue No.	21
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.949965 °	38.949965 °
				-121.653823 °	-121.653823 °
DWR ID	DWR_ST0002_01_s_2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 2 : SP_2017_ST0002_450_21_20170315_00002.jpg



View of the vehicle erosion along the waterside slope.

LM Start	17.60	Rating **	M	Issue No.	21 (cont)
LM End	17.60	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2017_ST0002_450_21_20170315_00003.jpg



View of the vehicle erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	18.69	Rating **	M	Issue No.	55
LM End	18.69	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.937903 °	38.937903 °
				-121.640897 °	-121.640897 °
DWR ID	DWR_ST0002_01_s _ 2017_55				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	18.81	Rating **	M	Issue No.	56
LM End	21.77	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.936518 °	38.898127 °
				-121.639405 °	-121.617990 °
DWR ID	DWR_ST0002_01_s _ 2017_56				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the water side slope and toe.					

Photo 1 of 1 : SP_2017_ST0002_450_56_20170413_00080.jpg



View of the debris along the waterside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	75
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932476°	38.932476°
				-121.635173°	-121.635173°
DWR ID					

Comment Code

Inspector Comment

FS_ID:51609

DS_ID:16877

EP_NO: N/A

Repair Type: No Action Needed

Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR

Sutter Yard - A Freitag) 10/10/2016 NOT ABANDONED. The old

pumping plant was abandoned but the culverts are still used as a

gravity drain to regulate the water level in the LS ditch. (DWR Sutter

Yard - A Freitag) 4/18/2016 Crossing is in good condition. The culvert

is not abandoned and is used as gravity drain for the LS ditch into the

bypass channel. 5/7/2015 Concrete culvert is being used as a gravity

drain for LS ditch. 11/12/2014 Same as last inspection. 5/14/2014

Same as last inspection. 10/30/2013 Same as last

inspection. 5/23/2013 Concrete culvert is being used as gravity drain

for LS ditch. 10/9/2012 Determine type of abandonment for concrete

culvert.

FIELD_STRUCT_DESC: [Pumping Plant No. 1] 1 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown.

Slide gates in a concrete well on the waterside (WS) shoulder. Wooden

flap gates and concrete headwall on the WS end. Concrete steps and

staff gage reading to 53 feet on the WS slope. [Additional Reference(s):

DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May

1953 (Station 141+46)]

FS Date: 4/13/2017 2:44:23 PM

LM Start	19.18	Rating **	A/W	Issue No.	75 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51609_65326.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2017_51609_65325.jpg



Slide gates on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

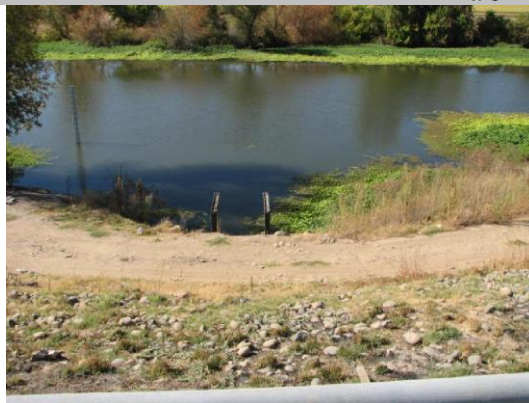
Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	75 (cont)	
LM End	19.18	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.932476 °		38.932476 °
				-121.635173 °		-121.635173 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51609						
DS_ID:16877						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - A Freitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culvert.						
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 1 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]						
FS Date: 4/13/2017 2:44:23 PM						

Photo 3 of 3 : UCIP_SP_2017_51609_65327.jpg



Flap gates on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	76
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932469 °	38.932469 °
				-121.635160 °	-121.635160 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51610
DS_ID:17027
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culverts.
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]
FS Date: 4/13/2017 2:47:22 PM

LM Start	19.18	Rating **	A/W	Issue No.	76 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51610_65330.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2017_51610_65329.jpg



Slide gates on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

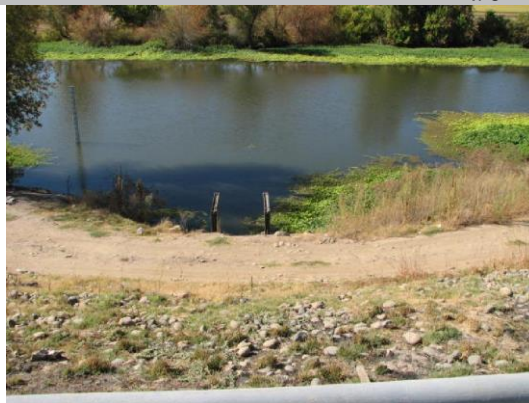
Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	76 (cont)	
LM End	19.18	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.932469 °	38.932469 °	
				-121.635160 °	-121.635160 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51610						
DS_ID:17027						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- A Freitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - A Freitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culverts.						
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]						
FS Date: 4/13/2017 2:47:22 PM						

Photo 3 of 3 : UCIP_SP_2017_51610_65328.jpg



Flap gates on WS toe.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	77
LM End	19.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °
				-121.635150 °	-121.635150 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51611
DS_ID:17028
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - A Freitag) 10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch. (DWR Sutter Yard - A Freitag) 4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel. 5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch. 11/12/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/23/2013 Concrete culvert is being used as gravity drain for LS ditch. 10/9/2012 Need to determine type of abandonment for concrete culverts.
FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]
FS Date: 4/13/2017 2:50:01 PM

LM Start	19.18	Rating **	A/W	Issue No.	77 (cont)
LM End	19.18	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51611_65333.jpg



Pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2017_51611_65332.jpg



Slide gates on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.	77 (cont)	
LM End	19.18	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.932460 °	38.932460 °	
				-121.635150 °	-121.635150 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51611 DS_ID:17028 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - A Freitag)10/10/2016 NOT ABANDONED. The old pumping plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - a Freitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Need to determine type of abandonment for concrete culverts. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3. 4-foot by 6-foot concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)] FS Date: 4/13/2017 2:50:01 PM						

Photo 3 of 3 : UCIP_SP_2017_51611_65331.jpg



Flap gate at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.18	Rating **	M	Issue No.	78
LM End	19.18	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932423 °	38.932423 °
				-121.635085 °	-121.635085 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51612 DS_ID:16878 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing. (DWR Suter Yard-afreitag)4/18/2015 Abandoned crossing. No noticeable issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. (Permit No. 3165, 1959 - State of California Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/13/2017 2:51:29 PM					

Photo 1 of 1 : UCIP_SP_2017_51612_65334.jpg



36-inch CMP riser on WS shoulder.

LM Start	19.86	Rating **	U	Issue No.	39
LM End	19.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.924752 °	38.924752 °
				-121.627068 °	-121.627068 °
DWR ID	DWR_ST0002_01_f_2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2017_ST0002_450_39_20170315_00013.jpg



View of a rodent hole with large hammer sitting on top.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	19.86	Rating **	U	Issue No.	39 (cont)	
LM End	19.86	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.924752 °		38.924752 °
				-121.627068 °		-121.627068 °
DWR ID	DWR_ST0002_01_f_2016_39					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP_2017_ST0002_450_39_20170315_00014.jpg



Another view of the rodent hole with large hammer hanging in the hole.

LM Start	20.02	Rating **	M	Issue No.	29
LM End	20.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.922678 °	38.922678 °
				-121.625890 °	-121.625890 °
DWR ID	DWR_ST0002_01_f_2015_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_29_20170315_00007.jpg



View of the vehicle erosion along the waterside slope.

LM Start	20.34	Rating **	U	Issue No.	10
LM End	20.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.918147 °	38.918147 °
				-121.624545 °	-121.624545 °
DWR ID	DWR_ST0002_01_s_2012_10				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_10_20170315_00001.jpg



View of the house next to the toe of the levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	04/13/2017 04/13/2017	Bob Duffey

LM Start	20.43	Rating **	M	Issue No.	40
LM End	20.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.916965 °	38.916965 °
				-121.624048 °	-121.624048 °
DWR ID	DWR_ST0002_01_f_2016_40				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0002_450_40_20170315_00015.jpg



View of the rodent holes along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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